NAVY TRAINING SYSTEM PLAN

FOR THE

A/F 37T-21 AIRCRAFT ENGINE

COMPONENTS TEST STAND

N88-NTSP-A-50-0005/P

AUGUST 2002

A/F 37T-21 AIRCRAFT ENGINE COMPONENTS TEST STAND

EXECUTIVE SUMMARY

The A/F 37T-21 Aircraft Engine Components Test Stand (AECTS) is an integrated test system that provides the capability of dynamic testing of aircraft engine driven accessories such as generators and generator drive systems at Aircraft Intermediate Maintenance Departments (AIMD) ashore and afloat. The AECTS reached the Production and Deployment phase of the Defense Acquisition System in April 2000, with Initial Operational Capability initiated in August 2001.

The AECTS is a Commercial Off-The-Shelf/Non-Developmental Item procurement. The Navy is procuring 59 AECTS units as the replacement for the MA-2 and MA-3 Test Stands. First article testing was completed in January 2000. Technical Evaluation at the Naval Air Warfare Center Aircraft Division, Patuxent River, Maryland, began in October 1999 and was completed April 2000. The contract for the first initial production of the AECTS was awarded in April 2000.

The equipment manufacturer, Testek Incorporated, and Naval Air Technical Data and Engineering Service Command (NATEC) technical representatives that have attended factory training can provide on-site training upon request. Initial AECTS training for NATEC and cadre instructor personnel was completed in September 1999.

The maintenance concept for the AECTS is intermediate level to commercial depot. The commercial depot repair site is the original equipment manufacturer: Testek Incorporated, Livonia, Michigan. Navy and Marine Corps personnel will operate and maintain the AECTS at AIMDs and Marine Aviation Logistics Squadrons (MALS) in accordance with the AECTS Maintenance Plan.

Personnel with Navy Enlisted Code (NEC) 7131 and Military Occupational Specialty (MOS) 6432 or 6433 are currently assigned to activities that operate and maintain the MA-2 and MA-3 Generator Test Stands. Based on the proposed acquisition of 59 AECTS units, there will be direct compensation from the legacy NEC and MOS structures, i.e., no increase to existing Navy or Marine Corps end strength. However, the establishment of NEC 7140 billets at NAS Corpus Christi and NAS Brunswick, where the AECTS is not a replacement, will be required.

Follow-on training for the AECTS began in October 2001 and is provided by NAMTRA MARUNIT, Marine Corps Air Station (MCAS) Cherry Point, North Carolina. Navy Aviation Electrician's Mates (AE) are awarded NEC 7140 and Marine Corp personnel are awarded MOS 6432 or 6433 through successful completion of course *C-602-3126, A/F 37T-21 Aircraft Engine Components Test Stand Operator/Maintainer*.

A/F 37T-21 AIRCRAFT ENGINE COMPONENTS TEST STAND

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LIST OF ACRONYMS

AC	Alternate Current
AE	Aviation Electrician's Mate
AECTS	Aircraft Engine Components Test Stand
AIMD	Aircraft Intermediate Maintenance Department
AIT	Alteration Installation Team
AMTCS	Aviation Maintenance Training Continuum System
BIT	Built-In Test
CIN	Course Identification Number
CINCLANT	Commander in Chief, Atlantic Fleet
CINCPAC	Commander in Chief, Pacific Fleet
CNO	Chief of Naval Operations
COMNAVAIRESFOR	Commander Naval Air Reserve Forces
COTS	Commercial Off-The-Shelf
CV	Aircraft Carrier
CVN	Aircraft Carrier, Nuclear
DC	Direct Current
IMA	Intermediate Maintenance Activity
IOC	Initial Operational Capability
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCAF	Marine Corps Air Facility
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MOS	Military Occupational Specialty
MRC	Maintenance Requirement Card
MSD	Material Support Date
MTBF	Mean Time Between Failures
MTIP	Maintenance Training Improvement Program
MTTR	Mean Time to Repair
NA	Not Applicable
NADEP	Naval Aviation Depot
NAF	Naval Air Facility
NAMTRA MARUNIT	Naval Air Maintenance Training Marine Unit

A/F 37T-21 AIRCRAFT ENGINE COMPONENTS TEST STAND

NAS	Naval Air Station
NATEC	Naval Air Technical Data and Engineering Service Command
NAVAIRSYSCOM	Naval Air Systems Command
NAVAIRWARCENACDIV	Naval Air Warfare Center Aircraft Division
NAVICP	Navy Inventory Control Point
NAWCADLKE	Naval Air Warfare Center Aircraft Division, Lakehurst
NEC	Navy Enlisted Classification
NTSP	Navy Training System Plan
NWTS	Naval Weapons Test Squadron
OEM	Original Equipment Manufacture
OPO	OPNAV Principal Official
PMA	Program Manager, Air
PSE	Peculiar Support Equipment
RFT	Ready For Training
SHIPALT	Ship Alterations
SMCR	Select Marine Corps Reserve
TAR	Training and Administration Reserves
TD	Training Device
TTE	Technical Training Equipment
USMC	United States Marine Corps
USN	United States Navy
UUT	Unit Under Test
VSD	Variable Speed Drive

A/F 37T-21 AIRCRAFT ENGINE COMPONENTS TEST STAND

PREFACE

This Proposed Navy Training System Plan (NTSP) for the Aircraft Engine Component Test Stand (AECTS) has been prepared to update the Draft AECTS NTSP (N88-NTSP-A-50-0005/D), dated December 2001. This update complies with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of Naval Operations (OPNAV) Publication P-751-1-9-97. Comments from Chief of Naval Education and Training are included, clarifying two items related to training.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. A/F 37T-21 Aircraft Engine Components Test Stand (AECTS)

2. Program Element. 24161N

B. SECURITY CLASSIFICATION

1. System Characteristics ..... Unclassified
2. Capabilities ..... Unclassified
3. Functions..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N785D1)

OPO Resource Sponsor ..... CNO (N789H4)

Developing Agency..... NAVAIR (PMA260)

Training Agency ..... CINCLANTFLT (N73)
CINCPACFLT (N70)
CNET (ETE32)
COMNAVRESFOR (N33)

Training Support Agency..... NAVAIR (PMA205-3)

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training..... CNO (N795)

Commander, Reserve Program Manager..... COMNAVAIRESFOR (N33)

Marine Corps Force Structure..... MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The AECTS is an integrated test system that provides dynamic testing capability of aircraft engine driven accessories, such as generators and generator drive systems. It also provides for the testing of a wide variety of aircraft electrical components. The AECTS will be deployed afloat and ashore at Navy Aircraft Intermediate Maintenance Departments (AIMD) and Marine Aviation Logistics Squadrons (MALS) for validating ready for issue status of components, verifying operation after a repair action, and troubleshooting and fault isolating generator system components. Initial Operational Capability (IOC) was achieved in November 2001.

2. Foreign Military Sales. Not Applicable (NA)

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. First article testing was completed in January 2000. Technical Evaluation began in October 1999 and was completed in April 2000 at the Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV), Patuxent River, Maryland.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The AECTS is the replacement for the MA-2 and MA-3 Generator Test Stands.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The AECTS will provide AIMD and MALS with the horsepower, the shaft speed, and the electrical loading requirements to test all aircraft power generating system components. The AECTS, with necessary adapters, is a modular system consisting of a Variable Speed Drive (VSD) System, Test Set Instrumentation, Hydraulic Cooling System, and Load banks.

a. Variable Speed Drive. The VSD is capable of operating at any speed up to 31,000 RPM with a 150 horsepower output.

b. Test Set Instrumentation. The Test Set Instrumentation provides for the controlling, selecting, and monitoring of test parameters of the Unit Under test (UUT). It displays both the selected and actual parameters of the VSD output speed and the Alternate Current (AC) and/or Direct Current (DC) load of the UUT.

c. Hydraulic Cooling System. The Hydraulic Cooling System provides conditioned oil to the gearbox, the constant speed drive, and any oil-cooled component under test.

d. Load Bank. The Load Bank is capable of providing loads of infinite resolution, and as a shock load of a preset value for all existing Navy and Marine Corps aircraft

electrical system components. It is also capable of balanced phased loading, or for loading each phase separately on both resistive and reactive loads. A cooling fan maintains the load elements at a safe operating temperature.

2. Physical Description. The AECTS is a modular design to allow for tailoring to meet space constraints aboard aircraft carriers. The total area required to accommodate the AECTS when assembled does not exceed 80 square feet in order to facilitate shipboard installation. Any module exceeding 220 pounds is equipped with appropriate lifting and transporting attachments. The AECTS is air and ground transportable in both vertical and horizontal storage positions. Physical descriptions of the major components are described below.

NOMENCLATURE	HEIGHT (INCHES)	DEPTH (INCHES)	WIDTH (INCHES)	WEIGHT (POUNDS)
Drive Motors Base	71	90	45	5,500
Load Bank	71	63	42	2,500
DC Power Supply	60	34	28	2,300
Control Console	71	56	35	1,800
Hydraulic Assembly	36	34	35	500

Figure I-1. AECTS

3. New Development Introduction. The AECTS is a Commercial Off-The-Self (COTS) Non-Developmental Item procurement. The Navy is procuring a total of 59 AECTS units, 39 United States Navy (USN), 19 United States Marine Corps (USMC), one at Marine Corps Air Station (MCAS) Cherry Point for follow-on training, to replace the existing MA-2 and MA-3 Generator Test Stands.

4. Significant Interfaces. The AECTS is capable of interfacing with the 440 VAC, 60 Hertz, three-phase, 4-wire electrical system of the ship. A means of isolating the AECTS from shipboard power is provided by an internal isolation transformer.

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. The AECTS operating and monitoring functions, associated controls, and instrumentation are grouped to facilitate a one-man operation. The AECTS incorporates Built-In Test (BIT) to perform functional checks upon system startup. The BIT is capable of isolating failed or faulty components down to a major subassembly level. Personnel in the Navy Aviation Electrician's Mate (AE) rating with the Navy Enlisted Classification Code (NEC) 7140, and Marines with Military Occupational Specialty (MOS) 6432 or 6433 will operate and maintain the AECTS.

2. Maintenance Concept. The AECTS will be maintained under a two-level maintenance concept, intermediate level to commercial depot. Intermediate Maintenance Activities (IMA) or Commercial Depot as required by the approved Maintenance Plan and applicable manuals and directives, will perform repair of sub-assemblies. At a minimum, the IMA is able to fault isolate and remove and replace faulty sub-assemblies. Depot level maintenance will include all repairs beyond the capability of the IMA. The commercial depot for the AECTS is the Original Equipment Manufacture (OEM), Testek Incorporated, Livonia, Michigan.

a. Organizational. NA

b. Intermediate. Navy personnel with NEC 7140 and Marine Corps personnel with MOS 6432 or 6433 operate and maintain the AECTS at AIMDs and MALS in accordance with the maintenance plan (MP70097019) and all applicable technical manuals and related directives. Preventive maintenance is performed per the AECTS Periodic Maintenance Requirements Manual (AG-AECTS-MRC-000). Corrective maintenance includes troubleshooting and fault isolation of discrepancies, and the removal and replacement of repairable subassemblies and consumable piece parts in accordance with the Operations and Intermediate Maintenance Instruction (AG-AECTS-MIB-000). Components found to be faulty are returned to the OEM for repair.

c. Depot. The OEM provides depot level repair of faulty AECTS components beyond the repair capabilities of the IMA for a period of ten years from date of installation, after

which the Naval Inventory Control Point (NAVICP) Mechanicsburg, Pennsylvania, will award a follow-on contract for support.

d. Interim Maintenance. The OEM provides technical assistance as required in conjunction with Naval Air Technical Data and Engineering Service (NATEC) personnel and is the primary technical assistance focal point. Upon request, NATEC technical representatives provide interim maintenance support for the AECTS.

e. Life Cycle Maintenance Plan. NA

3. Manning Concept. The AECTS manpower is driven by the requirements for operators and maintainers, preventive and corrective maintenance, and operational safety. Navy with NEC 7131 and Marine Corps personnel with MOS 6432 or 6433 are currently assigned to activities that operate and maintain the MA-2 and MA-3 Generator Test Stands. Based on the proposed acquisition of 59 AECTS units, there will be direct compensation from the legacy NEC and MOS structures, with no increase to Navy or Marine Corps end strength. There are, however, two exceptions where new billets will be required in FY05, Naval Air Station (NAS) Corpus Christi and NAS Brunswick.

a. Estimated Maintenance Man-Hours per Operating Hour. The Aircraft Engine Component Test Stand has a predicted Mean Time Between Failure (MTBF) rate of 720 hours with a Mean Time to Repair (MTTR) of 4.0 hours.

Note 1: MTBF is the mean hours between hardware or software failures.

Note 2: MTTR is the mean elapsed maintenance time needed to repair failures. It includes maintenance preparation, fault location and isolation, fault correction, adjustment and calibration, and system checkout.

b. Proposed Utilization. The estimated operating hours for the AECTS are 120 hours per month or 1440 hours per year.

c. Recommended Qualitative and Quantitative Manpower Requirements

(1) Aircrew. NA

(2) Maintenance. The AECTS does not generate an increase in the maintenance workload. Marines with MOS 6432 and 6433 are being trained to operate and maintain the AECTS. For personnel in the AE rating with legacy NEC 7131, AECTS training is mandatory and NEC 7140 will be awarded upon successful completion of formal training. However, no additional maintenance personnel will be required at activities with existing, NEC 7131 billets.

Based on a similarly sized AIMD, in FY05 NAS Corpus Christi and NAS Brunswick will require the following new billets (at each location):

RATE	NEC	QUANTITY
AE1	7140	1
AE2	7140	4
AE3	7140	4
AEAN	7140	14

(3) Other. NA

4. Training Concept. The AECTS training program consists of initial and follow-on training for operator-maintainer personnel.

a. Initial Training. The contractor provided initial operator and maintenance training for NATEC personnel, Naval Air Maintenance Training Marine Unit (NAMTRA MARUNIT) Instructors, and an initial cadre of fleet personnel. Initial training for Technical Evaluation personnel was completed in September 1999. Testek Incorporated provided a series of two-week factory training sessions in August 2000 to designated NATEC, instructor, and cadre personnel.

NATEC personnel will provide on-site training for currently assigned Navy AE or Marine personnel upon installation of the AECTS at each activity. Personnel will be taught all Learning Objectives as established by NAMTRA MARUNIT, and NEC 7140 can be assigned to Navy AEs upon successful completion and required documentation of on-site training.

b. Follow-on Training. Follow-on training is provided through course *C-602-3126, A/F 37T-21 Aircraft Engine Components Test Stand Operator/Maintainer*, at NAMTRA MARUNIT, MCAS Cherry Point, North Carolina, and began in October 2001. One AECTS system was designated as Technical Training Equipment (TTE) and delivered in July 2001 and installed in August 2001. Course C-602-3126 is mandatory for all Navy AE personnel to receive NEC 7140. Course C-602-3126 was integrated into Marine Corps MOS 6432 training.

Title	**A/F 37T-21 Aircraft Engine Components Test Stand Operator/Maintainer Training**
CIN	C-602-3126
Model Manager ...	NAMTRA MARUNIT Cherry Point
Description	This course provides training to the intermediate level Aviation Electrician, including: ° Theory of Operation ° Preventive Maintenance ° Troubleshooting ° Maintenance Repair ° Alignment and Calibration Upon completion, the student will be able to operate and maintain the AECTS in a shop environment under limited supervision.
Location	NAMTRA MARUNIT, MCAS Cherry Point
Length	15 days
RFT date	June 2002*****
Skill identifier.....	° AE 7140 ° MOS 6432 or 6433
TTE/TD.....	° A/F 37T-21 AECTS
Prerequisite.....	° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate Strand Class A1

***** Course of instruction is currently being provided utilizing interim approval. Official course approval Ready For Training (RFT) date expected June 2002.

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AE 7140	° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate Strand Class A1
MOS 6432	° C-602-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate Strand Class A1 ° C-602-4893, Fixed Wing Electrical/Instrument IMA Technician Course

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6433	° C-602-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate Strand Class A1 ° M-602-5812, CH-53D/E and CH-46 AFCS/Electrical Equipment Intermediate Maintenance ° M-602-5811, H-1 Aircraft Electrical Instrument/AFCS Equipment Intermediate Maintenance

d. Training Pipelines. For personnel in the AE rating with NEC 7131 awarded through On-the-Job Training, formal AECTS training is mandatory and NEC 7140 will be assigned upon completion. However, no new training pipelines will be required.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. Current planning is to adopt the Aviation Maintenance Training Continuum System (AMTCS) concepts to replace Maintenance Training Improvement Program (MTIP). AMTCS is scheduled to begin full implementation for fleet deployment during FY02.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the CNO mandated "just-in-time" training approach.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module which provides testing (Test and Evaluation), recording (Electronic Certification Qualification Records), and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate COTS hardware and software, i.e., Fleet Training Devices - Laptops, Personal Computers, Electronic Classrooms, Learning Resource Centers, operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are to be implemented and the new tools integrated into the daily training environment of all participating

aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on MCO P4790.12, Individual Training Standards System and MATMEP. This program is designed to meet Marine Corps, as well as the Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training (MATMEP is planned to be replaced by AMTCS).

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N62269-7016-0861	Testek Incorporated	12271 Globe Road Livonia, MI 48150

2. Program Documentation. The User's Logistics Support Plan (dated 11 March 2000) and the Acquisition Logistics Support Plan, Naval Air Warfare Center Aircraft Division, Lakehurst (NAWCADLKE)-170097019 (dated 18 January 2000) has been distributed and applies to all phases of the AECTS system.

3. Technical Data Plan. The technical publications provided by the contractor are in commercial format. The Pre-Operational (Pre-Op) Checklist and Maintenance Requirement Cards (MRC) will be provided in Navy format. Technical Manuals, Pre-Op, and MRC will be delivered with each AECTS. The technical manuals consist of the following:

- Operation and Maintenance Manual – AG-AECTS-MIB-000
- Pre-Operational Cards – AG-AECTS-POM-000
- Periodic Maintenance Requirements Manual – AG-AECTS-MRC-000
- Instrument Calibration Procedures – NA 17-50A127

4. Test Sets, Tools, and Test Equipment. There are no special tools, items, and/or test equipment required to support the AECTS.

5. Repair Parts. Parts required to support the AECTS will be provided by the contractor through the Defense Automatic Addressing System Center, Automated Message Exchange System (DAMES). NAVICP Mechanicsburg will provide oversight for system management. Activities will requisition repair parts using normal supply channels.

A formal provisioning effort for the AECTS is not required. Data required for parts support has been developed by the OEM and submitted to NAVICP Mechanicsburg. Due to the anticipated expeditious turn around time for parts and projected reliability of the AECTS, there is no requirement to maintain an allowance of parts on shore or aboard ship. Shipboard activities preparing for deploy should consider the requirements for parts necessary to satisfy preventive maintenance actions prior to deployment. The Material Support Date (MSD) was achieved in October 2001.

6. Human Systems Integration. NA

K. SCHEDULES. The Acquisition Logistics Support Plan (NAWCADLKE-170097019), dated 18 January 2000, originally identified IOC as February 2001. However, IOC was not achieved until November 2001. First article testing was completed in January 2000. Technical evaluation at the NAVAIRWARCENACDIV Patuxent River began in October 1999 and was completed in April 2000. The contract for the first initial production of the AECTS was awarded in April 2000.

1. Installation and Delivery Schedules. The MA2 and MA3 Generator Test Stands will require removal prior to installation of the AECTS. Various Alteration Installation Teams (AIT) coordinated through Program Manager, Air (PMA) 260 will install the AECTS aboard ship under Ship Alterations (SHIPALT) 8798K for Aircraft Carrier (CV) and SHIPALT 8799K for Aircraft Carrier, Nuclear (CVN), and at Navy shore locations. Naval Aviation Depot (NADEP), North Island, California, Mobile Facilities Engineering will plan the arrangement and install the AECTS in the Marine Mobile Maintenance Vans at MALS units. For additional information pertaining to the AECTS delivery schedule, contact PMA260.

DELIVERY SCHEDULE (NUMBER OF AECTS)					
FY01	**FY02**	**FY03**	**FY04**	**FY05**	**FY06**
3	12	12	12	12	8

2. Ready For Operational Use Schedule. A total of approximately six weeks is required for the removal of the MA-2 or MA-3 Generator Test Stands, the installation of the

AECTS, and training of designated personnel. AECTS will be Ready For Operational Use upon completion of equipment installation and training of the AIMD or MALS technicians.

AECTS DELIVERY SCHEDULE	
ACTIVITY	**DELIVERY DATE**
NAMTRA MARUNIT Cherry Point	July 2001
USS Ronald Reagan CVN 76	August 2001
NAS Whiting Field	September 2001
NTWL Patuxent River	October 2001
MALS-31 MCAS Beaufort	November 2001
NAS Lemoore	December 2001
NAS Lemoore (second installation)	January 2002
USS Nimitz CVN 68	February 2002
NAS Oceana	March 2002
NAS Oceana (second installation)	April 2002
USS Carl Vinson CVN 70	May 2002
MALS-49 ANGB Stewart	June 2002
USS Enterprise CVN 65	July 2002
NAS Jacksonville	August 2002
NAS Jacksonville (second installation)	September 2002
MALS-13 MCAS Yuma	October 2002
MALS-26 MCAS New River	November 2002
MALS-11 MCAS Miramar	December 2002
USS John C. Stennis CVN 74	January 2003
NAS Keflavik	February 2003
NAS North Island	March 2003
MALS-14 MCAS Cherry Point	April 2003
USS George Washington CVN 73	May 2003
USS John F. Kennedy CV 67	June 2003
NAS JRB Fort Worth	June 2003

AECTS DELIVERY SCHEDULE	
ACTIVITY	**DELIVERY DATE**
USS Harry S. Truman CVN 75	August 2003
USS Dwight D. Eisenhower CVN 69	September 2003
USS Kitty Hawk CV 63	October 2003
USS Abraham Lincoln CVN 72	November 2003
NAS Fallon	December 2003
NAS Kingsville (Note 1)	January 2004
NAS Whidbey Island	February 2004
NAS Norfolk	March 2004
USS Theodore Roosevelt CVN 71	April 2004
MALS-29 MCAS New River	May 2004
NAS New Orleans	June 2004
NAS Sigonella	July 2004
NAS Meridian (Note 1)	August 2004
NAS Atlanta	September 2004
MALS-39 MCAS Camp Pendleton	October 2004
MALSE-24 Kaneohe Bay	November 2004
MALS-16 MCAS Miramar	December 2004
NAF Misawa	January 2005
MALS-41 MALSP Master Fort Worth	February 2005
MALS-36 MCAS Okinawa	March 2005
NMTS China Lake (Note 1)	April 2005
NAS Corpus Christi (Note 2)	May 2005
NAS Pensacola	June 2005
MALS-12 MCAS Iwakuni	July 2005
NAVSTA Roosevelt Roads	August 2005
NAS Brunswick (Note 2)	September 2005
NAF Washington	October 2005

AECTS DELIVERY SCHEDULE	
ACTIVITY	**DELIVERY DATE**
NAS Willow Grove	November 2005
NWTS Point Mugu	December 2005
MALS-11 Miramar (second installation)	January 2006
MALS-26 New River (second installation)	February 2006
MALS-39 Camp Pendleton (second installation)	March 2006
HMX-1 Quantico	April 2006
MALS-14 Cherry Point (second installation)	May 2006

Note 1: These activities currently do not have NEC 7131 billets, and NEC 7140 billets will not be required to support the AECTS. At these locations, contractor personnel will perform all operation and maintenance on the AECTS.

Note 2: These activities currently do not have NEC 7131 billets. At these locations the establishment of NEC 7140 billets will be required.

3. Time Required to Install at Operational Sites. The AECTS itself is anticipated to require approximately one week to install.

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule. The AECTS is the primary TTE. An AECTS was delivered in July 2001 and installed at NAMTRA MARUNIT, MCAS Cherry Point, in August 2001.

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Performance Specification	NA	PMA260	Revised 31 Dec 97
Acquisition Logistics Support Plan	NAWCAD 170097019	NAWCADLKE Code 3.1.4.4	18 Jan 00

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Maintenance Plan for the A/F 37T-21 AECTS	MP70097019	NA	Approved Jun 01
User's Logistics Support Summary	NAWCADLKE U70000007	NAWCADLKE Code 3.1.4.4	Approved 15 Jan 01
Facilities Requirements Document	NA	NAWCADLKE Code 4852	Approved Oct 99

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the AECTS and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

Note: Per the AECTS delivery schedule, NAS Kingsville, NAS Meridian, and NMTS China Lake will receive an AECTS and contractor personnel will perform all operation and maintenance on the AECTS. NAS Corpus Christi and NAS Brunswick will receive an AECTS, and currently do not have NEC 7131 billets. The **new** 7140 billets shown for NAS Corpus Christi and NAS Brunswick are projected requirements based on similar support requirements at AIMD, NAS Jacksonville, Florida.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Navy Total Force Manpower Management System **DATE:** 1/10/01
SOURCE: USMC Extracts from Table of Organization **DATE:** 1/10/01

ACTIVITY, UIC		PFYs	CFY02	FY03	FY04	FY05	FY06
FLEET SUPPORT ACTIVITIES - NAVY							
NAF Washington	44492	1	0	0	0	0	0
NAS Atlanta	00196	1	0	0	0	0	0
NAS Brunswick	60087	0	0	0	0	1	0
NAS Corpus Christi	00216	0	0	0	0	1	0
NAS Jacksonville	44319	1	0	0	0	0	0
NAS Keflavik	63032	1	0	0	0	0	0
NAS Kingsville	30777	0	0	0	0	1	0
NAS Meridian	30458	0	0	0	1	0	0
NAS New Orleans	44490	1	0	0	0	0	0
NAS Norfolk	44325	1	0	0	0	0	0
NAS North Island	44326	1	0	0	0	0	0
NAS Oceana	44327	1	0	0	0	0	0
NAS Pensacola	00204	1	0	0	0	0	0
NAS Sigonella	44378	1	0	0	0	0	0
NAS Whiting Field	00204	1	0	0	0	0	0
NAS Willow Grove	44493	1	0	0	0	0	0
NTWL Patuxent River	39782	1	0	0	0	0	0
USS Dwight D. Eisenhower CVN 69	03369	1	0	0	0	0	0
USS Enterprise CVN 65	03365	1	0	0	0	0	0
USS George Washington CVN 73	21412	1	0	0	0	0	0
USS Harry S. Truman CVN 75	21853	1	0	0	0	0	0
USS John F. Kennedy CV 67	21110	1	0	0	0	0	0
USS Nimitz CVN 68	03368	1	0	0	0	0	0
USS Ronald Reagan CVN 76	22178	1	0	0	0	0	0
USS Theodore Roosevelt CVN 71	21247	1	0	0	0	0	0
NAF Misawa	44331	1	0	0	0	0	0
NAS Fallon	44317	1	0	0	0	0	0
NAS JRB Fort Worth	44487	1	0	0	0	0	0
NAS Lemoore	46964	1	0	0	0	0	0
NAS Whidbey Island	44329	1	0	0	0	0	0
NAVSTA Roosevelt Roads	44373	1	0	0	0	0	0
NMTS China Lake	68937	0	0	0	0	5	0
NWTS Point Mugu	44328	1	0	0	0	0	0
USS Carl Vinson CVN 70	20993	1	0	0	0	0	0
USS John C. Stennis CVN 74	21847	1	0	0	0	0	0
USS Kitty Hawk CV 63	03363	1	0	0	0	0	0
USS Abraham Lincoln CVN 72	21297	1	0	0	0	0	0
TOTAL:		32	0	0	1	8	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System **DATE:** 10/1/01
SOURCE: USMC Extracts from Table of Organization **DATE:** 1/10/01

ACTIVITY, UIC		PFYs	CFY02	FY03	FY04	FY05	FY06
FLEET SUPPORT ACTIVITIES - USMC							
HMX-1 Quantico	80262	1	0	0	0	0	0
MALS-14 Cherry Point	09378	1	0	0	0	0	0
MALS-26 New River	09506	1	0	0	0	0	0
MALS-29 New River	52844	1	0	0	0	0	0
MALS-31 Beaufort	09384	1	0	0	0	0	0
MALS-49 ANGB Stewart	55555	1	0	0	0	0	0
MALS-11 Miramar	09233	1	0	0	0	0	0
MALS-12 Iwakuni	09377	1	0	0	0	0	0
MALS-13 Yuma	09041	1	0	0	0	0	0
MALS-16 Miramar	09243	1	0	0	0	0	0
MALS-36 Okinawa	09260	1	0	0	0	0	0
MALS-39 Camp Pendleton	09304	1	0	0	0	0	0
MALS-41 Fort Worth	83447	1	0	0	0	0	0
MALSE Kaneohe Bay	09382	1	0	0	0	0	0
TOTAL:		14	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FLEET SUPPORT ACTIVITIES - NAVY					
NAF Washington, 44492					
SELRES	0	1	AEAN	7131	
NAF Washington, 44492, FY05 Increment					
SELRES	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	2			
NAS Atlanta, 00196					
ACDU	0	1	AE1	7175	7131
	0	5	AE2	7131	
	0	3	AE3	7131	
	0	1	AEAN	7131	
NAS Atlanta, 00196, FY04 Increment					
ACDU	0	1	AE1	7140	
	0	5	AE2	7140	
	0	3	AE3	7140	
	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	20			
NAS Brunswick, 60087, FY05 Increment					
ACDU	0	1	AE1	7140	
	0	1	AE2	7140	
	0	5	AE3	7140	
	0	2	AEAN	7140	
ACTIVITY TOTAL:	0	9			
NAS Corpus Christi, 00216, FY05 Increment					
ACDU	0	1	AE1	7140	
	0	1	AE2	7140	
	0	5	AE3	7140	
	0	2	AEAN	7140	
ACTIVITY TOTAL:	0	9			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Jacksonville, 44319					
ACDU	0	1	AE1	7175	7131
	0	1	AE2	7131	
	0	5	AE3	7131	
	0	2	AEAN	7131	
NAS Jacksonville, 44319, FY02 Increment					
ACDU	0	1	AE1	7140	
	0	1	AE2	7140	
	0	5	AE3	7140	
	0	2	AEAN	7140	
ACTIVITY TOTAL:	0	18			
NAS Keflavik, 63032					
ACDU	0	1	AEAN	7131	
NAS Keflavik, 63032, FY03 Increment					
ACDU	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	2			
NAS New Orleans, 44490					
SELRES	0	1	AE3	7131	
NAS New Orleans, 44490, FY04 Increment					
SELRES	0	1	AE3	7140	
ACTIVITY TOTAL:	0	2			
NAS Norfolk, 44325					
ACDU	0	1	AE1	7175	7131
	0	3	AE2	7131	
	0	3	AE3	7131	
NAS Norfolk, 44325, FY04 Increment					
ACDU	0	1	AE1	7140	
	0	3	AE2	7140	
	0	3	AE3	7140	
ACTIVITY TOTAL:	0	14			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS North Island, 44326					
ACDU	0	1	AE1	7175	7131
	0	3	AE2	7131	
	0	2	AE3	7131	
NAS North Island, 44326, FY03 Increment					
ACDU	0	1	AE1	7140	
	0	3	AE2	7140	
	0	2	AE3	7140	
ACTIVITY TOTAL:	0	12			
NAS Oceana, 44327					
ACDU	0	3	AE2	7131	
	0	2	AE3	7131	
	0	1	AEAN	7131	
NAS Oceana, 44327, FY02 Increment					
ACDU	0	3	AE2	7140	
	0	2	AE3	7140	
	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	12			
NAS Pensacola, 00204					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
SELRES	0	2	AEAN	7131	
NAS Pensacola, 00204, FY05 Increment					
ACDU	0	2	AE2	7140	
	0	1	AE3	7140	
SELRES	0	2	AEAN	7140	
ACTIVITY TOTAL:	0	10			
NAS Sigonella, 44378					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
NAS Sigonella, 44378, FY04 Increment					
ACDU	0	2	AE2	7140	
	0	1	AE3	7140	
ACTIVITY TOTAL:	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Whiting Field, 00204					
ACDU	0	1	AE1	7175	7131
	0	3	AE2	7131	
	0	2	AE3	7131	
	0	1	AEAN	7131	
NAS Whiting Field, 00204, FY01 Increment					
ACDU	0	1	AE1	7140	
	0	3	AE2	7140	
	0	2	AE3	7140	
	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	14			
NAS Willow Grove, 44493					
ACDU	0	1	AEAN	7131	
SELRES	0	1	AEAN	7131	
NAS Willow Grove, 44493, FY06 Increment					
ACDU	0	1	AEAN	7140	
SELRES	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	4			
NTWL Patuxent River, 39782					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
NTWL Patuxent River, 39782, FY02 Increment					
ACDU	0	2	AE2	7140	
	0	1	AE3	7140	
ACTIVITY TOTAL:	0	6			
USS Dwight D. Eisenhower CVN 69, 03369					
ACDU	0	1	AE2	7131	
USS Dwight D. Eisenhower CVN 69, 03369, FY02 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USS Enterprise CVN 65, 03365					
ACDU	0	1	AE1	7175	7131
	0	1	AEAN	7131	
USS Enterprise CVN 65, 03365, FY02 Increment					
ACDU	0	1	AE1	7140	
	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	4			
USS George Washington CVN 73, 21412					
ACDU	0	1	AE2	7131	
USS George Washington CVN 73, 21412, FY03 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			
USS Harry S. Truman CVN 75, 21853					
ACDU	0	1	AE1	7175	7131
USS Harry S. Truman CVN 75, 21853, FY03 Increment					
ACDU	0	1	AE1	7140	
ACTIVITY TOTAL:	0	2			
USS John F. Kennedy CV 67, 21110					
ACDU	0	1	AE2	7131	
USS John F. Kennedy CV 67, 21110, FY03 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			
USS Nimitz CVN 68, 03368					
ACDU	0	1	AE2	7131	
USS Nimitz CVN 68, 03368, FY02 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USS Ronald Reagan CVN 76, 22178					
ACDU	0	1	AE2	7131	
USS Ronald Reagan CVN 76, 22178, FY01 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			
USS Theodore Roosevelt CVN 71, 21247					
ACDU	0	1	AE2	7131	
USS Theodore Roosevelt CVN 71, 21247, FY04 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			
NAF Misawa, 44331					
ACDU	0	3	AE2	7131	
NAF Misawa, 44331, FY05 Increment					
ACDU	0	3	AE2	7140	
ACTIVITY TOTAL:	0	6			
NAS Fallon, 44317					
ACDU	0	3	AE2	7131	
NAS Fallon, 44317, FY04 Increment					
ACDU	0	3	AE2	7140	
ACTIVITY TOTAL:	0	6			
NAS JRB Fort Worth, 44487					
SELRES	0	2	AE3	7131	
	0	2	AEAN	7131	
NAS JRB Fort Worth, 44487, FY04 Increment					
SELRES	0	2	AE3	7140	
	0	2	AEAN	7140	
ACTIVITY TOTAL:	0	8			
NAS Lemoore, 46964					
ACDU	0	4	AE2	7131	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Lemoore, 46964, FY02 Increment					
ACDU	0	4	AE2	7140	
ACTIVITY TOTAL:	0	8			
NAS Whidbey Island, 44329					
ACDU	0	1	AE1	7175	7131
	0	4	AE2	7131	
	0	4	AE3	7131	
	0	14	AEAN	7131	
NAS Whidbey Island, 44329, FY04 Increment					
ACDU	0	1	AE1	7140	
	0	4	AE2	7140	
	0	4	AE3	7140	
	0	14	AEAN	7140	
ACTIVITY TOTAL:	0	46			
NAVSTA Roosevelt Roads, 44373					
ACDU	0	1	AE1	7175	7131
	0	1	AE2	7131	
NAVSTA Roosevelt Roads, 44373, FY05 Increment					
ACDU	0	1	AE1	7175	7140
	0	1	AE2	7140	
ACTIVITY TOTAL:	0	4			
NWTS Point Mugu, 44328					
ACDU	0	3	AE2	7131	
NWTS Point Mugu, 44328, FY06 Increment					
ACDU	0	3	AE2	7140	
ACTIVITY TOTAL:	0	6			
USS Carl Vinson CVN 70, 20993					
ACDU	0	1	AE2	7131	
USS Carl Vinson CVN 70, 20993, FY02 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USS John C. Stennis CVN 74, 21847					
ACDU	0	1	AE2	7131	
USS John C. Stennis CVN 74, 21847, FY03 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			
USS Kitty Hawk CV 63, 03363					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
	0	1	AEAN	7131	
USS Kitty Hawk CV 63, 03363, FY04 Increment					
ACDU	0	2	AE2	7140	
	0	1	AE3	7140	
	0	1	AEAN	7140	
ACTIVITY TOTAL:	0	8			
USS Abraham Lincoln CVN 72, 21297					
ACDU	0	1	AE2	7131	
USS Abraham Lincoln CVN 72, 21297, FY04 Increment					
ACDU	0	1	AE2	7140	
ACTIVITY TOTAL:	0	2			
FLEET SUPPORT ACTIVITIES - USMC					
HMX-1 Quantico, 80262					
USMC	0	3	CPL	6433	
	0	3	SGT	6433	
ACTIVITY TOTAL:	0	6			
MALS-14 Cherry Point, 09378					
USMC	0	3	CPL	6432	
	0	15	LCPL	6432	
	0	8	SGT	6432	
ACTIVITY TOTAL:	0	26			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-26 New River, 09506					
USMC	0	9	CPL	6433	
	0	23	LCPL	6433	
	0	8	SGT	6433	
ACTIVITY TOTAL:	0	40			
MALS-29 New River, 52844					
USMC	0	6	CPL	6433	
	0	24	LCPL	6433	
	0	9	SGT	6433	
ACTIVITY TOTAL:	0	39			
MALS-31 Beaufort, 09384					
USMC	0	7	CPL	6432	
	0	13	LCPL	6432	
	0	1	SGT	6432	
ACTIVITY TOTAL:	0	21			
MALS-49 ANGB Stewart, 55555					
USMC	0	6	CPL	6432	
	0	2	LCPL	6432	
	0	2	SGT	6432	
ACTIVITY TOTAL:	0	10			
MALS-11 Miramar, 09233					
USMC	0	3	CPL	6432	
	0	15	LCPL	6432	
	0	6	SGT	6432	
ACTIVITY TOTAL:	0	24			
MALS-12 Iwakuni, 09377					
USMC	0	3	CPL	6432	
	0	3	LCPL	6432	
	0	1	SGT	6432	
ACTIVITY TOTAL:	0	7			
MALS-13 Yuma, 09041					
USMC	0	21	LCPL	6432	
	0	7	SGT	6432	
ACTIVITY TOTAL:	0	28			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-16 Miramar, 09243					
USMC	0	5	CPL	6433	
	0	30	LCPL	6433	
	0	11	SGT	6433	
ACTIVITY TOTAL:	0	46			
MALS-36 Okinawa, 09260					
USMC	0	5	LCPL	6432	
	0	5	LCPL	6433	
	0	3	SGT	6432	
	0	3	SGT	6433	
ACTIVITY TOTAL:	0	16			
MALS-39 Camp Pendleton, 09304					
USMC	0	23	CPL	6433	
	0	24	LCPL	6433	
	0	6	SGT	6433	
ACTIVITY TOTAL:	0	53			
MALS-41 Fort Worth, 83447					
USMC	0	6	CPL	6432	
	0	4	LCPL	6432	
	0	2	SGT	6432	
ACTIVITY TOTAL:	0	12			
MALSE Kaneohe Bay, 09382					
USMC	0	15	CPL	6433	
	0	7	LCPL	6433	
	0	3	SGT	6433	
ACTIVITY TOTAL:	0	25			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AE1	7140			1	2	2	3	2	0				
AE1	7175 7131			8	0	0	0	0	0				
AE1	7175 7140			0	0	0	0	1	0				
AE2	7131			49	0	0	0	0	0				
AE2	7140			4	13	6	21	14	3				
AE3	7131			23	0	0	0	0	0				
AE3	7140			2	8	2	12	9	0				
AEAN	7131			22	0	0	0	0	0				
AEAN	7140			1	4	1	16	28	1				
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
AE2	7131			0	0	0	0	0	0				
AE3	7131			3	0	0	0	0	0				
AE3	7140			0	0	0	3	0	0				
AEAN	7131			6	0	0	0	0	0				
AEAN	7140			0	0	0	2	3	1				
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	6432			28	0	0	0	0	0				
CPL	6433			61	0	0	0	0	0				
LCPL	6432			78	0	0	0	0	0				
LCPL	6433			113	0	0	0	0	0				
SGT	6432			30	0	0	0	0	0				
SGT	6433			43	0	0	0	0	0				

SUMMARY TOTALS:

NAVY FLEET SUPPORT ACTIVITIES - ACDU													
				110	27	11	52	54	4				
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
				9	0	0	5	3	1				
USMC FLEET SUPPORT ACTIVITIES - USMC													
				353	0	0	0	0	0				

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
GRAND TOTALS:													
NAVY - ACDU		110		27		11		52		54		4	
NAVY - SELRES		9		0		0		5		3		1	
USMC - USMC		353		0		0		0		0		0	

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FLEET SUPPORT ACTIVITIES - NAVY					
NAF Washington, 44492, FY05 Increment					
SELRES	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	1			
NAS Atlanta, 00196, FY04 Increment					
ACDU	0	1	AE1	7175	7131
	0	5	AE2	7131	
	0	3	AE3	7131	
	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	10			
NAS Jacksonville, 44319, FY02 Increment					
ACDU	0	1	AE1	7175	7131
	0	1	AE2	7131	
	0	5	AE3	7131	
	0	2	AEAN	7131	
ACTIVITY TOTAL:	0	9			
NAS Keflavik, 63032, FY03 Increment					
ACDU	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	1			
NAS New Orleans, 44490, FY04 Increment					
SELRES	0	1	AE3	7131	
ACTIVITY TOTAL:	0	1			
NAS Norfolk, 44325, FY04 Increment					
ACDU	0	1	AE1	7175	7131
	0	3	AE2	7131	
	0	3	AE3	7131	
ACTIVITY TOTAL:	0	7			
NAS North Island, 44326, FY03 Increment					
ACDU	0	1	AE1	7175	7131
	0	3	AE2	7131	
	0	2	AE3	7131	
ACTIVITY TOTAL:	0	6			

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Oceana, 44327, FY02 Increment					
ACDU	0	3	AE2	7131	
	0	2	AE3	7131	
	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	6			
NAS Pensacola, 00204, FY05 Increment					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
SELRES	0	2	AEAN	7131	
ACTIVITY TOTAL:	0	5			
NAS Sigonella, 44378, FY04 Increment					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
ACTIVITY TOTAL:	0	3			
NAS Whiting Field, 00204, FY01 Increment					
ACDU	0	1	AE1	7175	7131
	0	3	AE2	7131	
	0	2	AE3	7131	
	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	7			
NAS Willow Grove, 44493, FY06 Increment					
ACDU	0	1	AEAN	7131	
SELRES	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	2			
NTWL Patuxent River, 39782, FY02 Increment					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
ACTIVITY TOTAL:	0	3			
USS Dwight D. Eisenhower CVN 69, 03369, FY02 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USS Enterprise CVN 65, 03365, FY02 Increment					
ACDU	0	1	AE1	7175	7131
	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	2			
USS George Washington CVN 73, 21412, FY03 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			
USS Harry S. Truman CVN 75, 21853, FY03 Increment					
ACDU	0	1	AE1	7175	7131
ACTIVITY TOTAL:	0	1			
USS John F. Kennedy CV 67, 21110, FY03 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			
USS Nimitz CVN 68, 03368, FY02 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			
USS Ronald Reagan CVN 76, 22178, FY01 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			
USS Theodore Roosevelt CVN 71, 21247, FY04 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			
NAF Misawa, 44331, FY05 Increment					
ACDU	0	3	AE2	7131	
ACTIVITY TOTAL:	0	3			
NAS Fallon, 44317, FY04 Increment					
ACDU	0	3	AE2	7131	
ACTIVITY TOTAL:	0	3			

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS JRB Fort Worth, 44487, FY04 Increment					
SELRES	0	2	AE2	7131	
	0	2	AEAN	7131	
ACTIVITY TOTAL:	0	4			
NAS Lemoore, 46964, FY02 Increment					
ACDU	0	4	AE2	7131	
ACTIVITY TOTAL:	0	4			
NAS Whidbey Island, 44329, FY04 Increment					
ACDU	0	1	AE1	7175	7131
	0	4	AE2	7131	
	0	4	AE3	7131	
	0	14	AEAN	7131	
ACTIVITY TOTAL:	0	23			
NAVSTA Roosevelt Roads, 44373, FY05 Increment					
ACDU	0	1	AE1	7175	7131
	0	1	AE2	7131	
ACTIVITY TOTAL:	0	2			
NWTS Point Mugu, 44328, FY06 Increment					
ACDU	0	3	AE2	7131	
ACTIVITY TOTAL:	0	3			
USS Carl Vinson CVN 70, 20993, FY02 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			
USS John C. Stennis CVN 74, 21847, FY03 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			
USS Kitty Hawk CV 63, 03363, FY04 Increment					
ACDU	0	2	AE2	7131	
	0	1	AE3	7131	
	0	1	AEAN	7131	
ACTIVITY TOTAL:	0	4			

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USS Abraham Lincoln CVN 72, 21297, FY04 Increment					
ACDU	0	1	AE2	7131	
ACTIVITY TOTAL:	0	1			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AE1	7175 7131			8	-2		-2		-3		-1		0
AE2	7131			49	-13		-6		-21		-6		-3
AE3	7131			23	-8		-2		-12		-1		0
AEAN	7131			22	-4		-1		-16		0		-1
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
AE2	7131			0	0		0		-2		0		0
AE3	7131			1	0		0		-1		0		0
AEAN	7131			6	0		0		-2		-3		-1

SUMMARY TOTALS:

NAVY FLEET SUPPORT ACTIVITIES - ACDU													
				102	-27		-11		-52		-8		-4
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
				7	0		0		-5		-3		-1

GRAND TOTALS:

NAVY - ACDU													
				102	-27		-11		-52		-8		-4
NAVY - SELRES													
				7	0		0		-5		-3		-1

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT, MCAS Cherry Point, 66047													
INSTRUCTOR BILLETS													
USMC													
SGT	6432	0	5	0	5	0	5	0	5	0	5	0	5
TOTAL:		0	5	0	5	0	5	0	5	0	5	0	5

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY02 OFF	CFY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL	FY06 OFF	FY06 ENL
NAMTRA MARUNIT, MCAS Cherry Point, 66047													
	NAVY	0.4		1.2		1.1		2.9		3.7		2.3	
	USMC	3.8		3.7		3.7		3.7		3.7		3.7	
SUMMARY TOTALS:													
	NAVY	0.4		1.2		1.1		2.9		3.7		2.3	
	USMC	3.8		3.7		3.7		3.7		3.7		3.7	
GRAND TOTALS:													
		4.2		4.9		4.8		6.6		7.4		6.0	

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY02 +/-	CFY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM
a. OFFICER - USN	Not Applicable												
b. ENLISTED - USN													
Fleet Support Billets ACDU and TAR													
AE1	7140		1	2	3	2	5	3	8	2	10	0	10
AE1	7175	7131	8	-2	6	-2	4	-3	1	-1	0	0	0
AE1	7175	7140	0	0	0	0	0	0	0	1	1	0	1
AE2	7131		49	-13	36	-6	29	-21	9	-6	3	-3	0
AE2	7140		4	13	17	6	23	21	44	14	58	3	61
AE3	7131		23	-8	15	-2	13	-12	1	-1	0	0	0
AE3	7140		2	8	10	2	12	12	24	9	33	0	33
AEAN	7131		22	-4	18	-1	17	-16	1	0	1	-1	0
AEAN	7140		1	4	5	1	6	16	22	28	50	1	51
Chargeable Student Billets ACDU and TAR													
			1	0	1	0	1	2	3	1	4	-2	2
SELRES Billets													
AE2	7131		0	0	0	0	0	-2	-2	0	-2	0	-2
AE3	7131		3	0	3	0	3	-1	2	0	2	0	2
AE3	7140		0	0	0	0	0	3	3	0	3	0	3
AEAN	7131		6	0	6	0	6	-2	4	-3	1	-1	0
AEAN	7140		0	0	0	0	0	2	2	3	5	1	6
TOTAL USN ENLISTED BILLETS:													
Fleet Support			110	0	110	0	110	0	110	46	156	0	156
Chargeable Student			1	0	1	0	1	2	3	1	4	-2	2
SELRES			9	0	9	0	9	0	9	0	9	0	9

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY02 +/-	CFY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM	FY06 +/-	FY06 CUM
c. OFFICER - USMC	Not Applicable												
d. ENLISTED - USMC													
Fleet Support Billets USMC and AR													
CPL	6432		28	0	28	0	28	0	28	0	28	0	28
CPL	6433		61	0	61	0	61	0	61	0	61	0	61
LCPL	6432		78	0	78	0	78	0	78	0	78	0	78
LCPL	6433		113	0	113	0	113	0	113	0	113	0	113
SGT	6432		30	0	30	0	30	0	30	0	30	0	30
SGT	6433		43	0	43	0	43	0	43	0	43	0	43
Staff Billets USMC and AR													
SGT	6432		5	0	5	0	5	0	5	0	5	0	5
Chargeable Student Billets USMC and AR													
			4	0	4	0	4	0	4	0	4	0	4
TOTAL USMC ENLISTED BILLETS:													
Fleet Support			353	0	353	0	353	0	353	0	353	0	353
Staff			5	0	5	0	5	0	5	0	5	0	5
Chargeable Student			4	0	4	0	4	0	4	0	4	0	4

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-601-3126, A/F 37T-21 Aircraft Engine Components Test Stand Operator/Maintainer Training
COURSE LENGTH: 2.2 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.04

TRAINING		ACDU/TAR	CFY02		FY03		FY04		FY05		FY06	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAMTRA MARUNIT, MCAS Cherry Point												
	NAVY	ACDU		32		27		75		94		60
		SELRES		0		0		1		1		1
	USMC	USMC		90		90		90		90		90
		TOTAL:		122		117		166		185		151

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the AECTS and, therefore, are not included in Part III of this NTSP:

III.A.1 Initial Training Requirements

III.A.2.a. Existing Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-601-3126, A/F 37T-21 Aircraft Engine Components Test Stand Operator/Maintainer Training
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Cherry Point, 66047

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
32		27		75		94		60		ATIR
29		24		68		85		54		Output
1.2		1.1		2.9		3.7		2.3		AOB
1.2		1.1		2.9		3.7		2.3		Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		1		1		1		ATIR
0		0		1		1		1		Output
0.0		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY02		FY03		FY04		FY05		FY06		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
90		90		90		90		90		ATIR
90		90		90		90		90		Output
3.7		3.7		3.7		3.7		3.7		AOB
3.7		3.7		3.7		3.7		3.7		Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the AECTS and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-602-3126, A/F 37T-21 Aircraft Engine Components Test Stand Operator and Maintainer
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Cherry Point, 66047

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
GPTE					
001	A/F 37T-21 Aircraft Engine Components Test Stand	1	Aug 01	CFE	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-602-3126, A/F 37T-21 Aircraft Engine Components Test Stand Operator and Maintainer
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Cherry Point, 66047

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	2	Oct 01	Onboard
Students Guides	60	Oct 01	Onboard

CIN, COURSE TITLE: C-602-3126, A/F 37T-21 Aircraft Engine Components Test Stand Operator and Maintainer
TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC : MCAS Cherry Point, 66047

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
AG-AECTS-MIB-000 Operation and Maintenance Manual	Hard copy	2	Oct 01	Onboard
AG-AECTS-MRC-000 Periodic Maintenance Requirements Manual	Hard copy	2	Oct 01	Onboard
AG-AECTS-POM-000 Pre-Operational Cards	Hard copy	2	Oct 01	Onboard
NA 17-50A127 Instrument Calibration Procedures	Hard copy	2	Oct 01	Onboard

NAVAIR

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
TSA	Conducted Initial Training for TECHEVAL	Sep 99	Completed
OPTEVFOR	Conducted TECHEVAL	Oct 99	Completed
TSA	Provided Factory Training for NATEC and Instructor Personnel	Aug 00	Completed
TSA	Delivered Curricula Materials	Jul 01	Completed
TSA	Delivered Technical Training Equipment	Jul 01	Completed
TSA	Installed Technical Training Equipment	Aug 01	Completed
OPO	Programmed Manpower and Training Resource Requirements	Aug 01	Completed
TSA	Began Follow-On Training	Oct 01	Completed
DA	Achieved MSD	Oct 01	Completed
DA	Achieved IOC	Nov 01	Completed
DA	Distribute Draft NTSP for Fleet Review	Feb 02	Completed
OPO	Approve NTSP	Jul 02	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
None			

NAVAIR

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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PART VII - POINTS OF CONTACT

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PART VII - POINTS OF CONTACT

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SUMMARY OF COMMENTS

ON THE

NAVY TRAINING SYSTEM PLAN FOR THE

A/F 37T-21 AIRCRAFT ENGINE COMPONENTS TEST STAND

OF MAY 2002

N88-NTSP-A-50-0005/P

Prepared by: AMC James Sirigos, AIR-3.4.1
Contact at: (301) 757-3089
Date submitted: June 2002

COMMENTS / RECOMMENDATIONS ON THE
A/F 37T-21 AIRCRAFT ENGINE
COMPONENTS TEST STAND
PROPOSED NAVY TRAINING SYSTEM PLAN

TABLE OF CONTENTS

ACTIVITIES PROVIDING COMMENTS:

Chief of Naval Education and Training (ETSO)..... 1

COMMENTS / RECOMMENDATIONS ON THE
A/F 37T-21 AIRCRAFT ENGINE
COMPONENTS TEST STAND
PROPOSED NAVY TRAINING SYSTEM PLAN

ACTIVITY NAME: Chief of Naval Education and Training (ETSO)

COMMENT: Page I-7

A/F 37T-21 Aircraft Components Test Stand Operator/Maintainer Training. A new course is being developed for this system. NAMTRAU Cherry Point has had one initial teach through of the course (Aug 01). The TPP will be submitted to CNET in February 2002 with subsequent submission for approval to N789H4. The NTSP page I-7 reflects that the program is currently RFT. The better RFT date is June 2002.

INCORPORATED: YES

REMARKS: Date has been changed to reflect anticipated June 2002 RFT date.

COMMENT: Page I-8, paragraph I.1.b

Aviation Maintenance Training Continuum. The second paragraph under this heading alludes to the use of Interactive Multimedia Courseware. Are any of these technologies currently planned for use in any training or course of instruction associated with the A/F 37T-21 Aircraft Components Test Stand?

INCORPORATED: YES

REMARKS: None of the previously mentioned technologies are planned for use in support of A/F 37T-21 Aircraft Components Test Stand training. Misleading paragraph has been deleted from this NTSP.